

## ABSTRACT

The present invention provides compositions and methods for screening of compounds that decrease the activity of thymidylate synthase either directly or indirectly. The composition of the invention comprises a DNA construct comprising from the 5' to the 3' direction, a TBE cassette comprising one or more copies, in forward or reverse orientation, of TBE1 and TBE2, and a reporter gene operably linked to a promoter and optionally a selectable marker. The method of the invention comprises growing cells comprising the construct of the invention in the presence or absence of a test compound such that a test compound which decreases the activity of

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